

## BACKGROUND OF THE INVENTION

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substitute spec. filed 5/5/05  
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5 This invention is a continuation of serial number 10/094,833 filed March 10, 2002 which is a continuation-in-part of serial number 08/979,735 filed on 11-26-97, now patent number 6,356,724, which is a continuation-in-part of serial number 08/896,491 filed 7-18-97, now patent number 5,878,306, which is a continuation-in-part of serial number 08/370,968, now patent number 6,552,780, which was filed on 1-10-95. This invention relates to solving problems in imaging machines as well as toner cartridges used in Xerography and more specifically in the toner cartridge remanufacturing industry. This includes copiers, laser printers, facsimile machines, or any other imaging machine. However, this invention may also relate to these copiers, laser printers, facsimile, or other imaging machines as well as the toner cartridges used in these imaging machines. The users of this invention will typically be toner cartridge remanufacturers as well as service technicians.

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CANON has designed an all-in-one cartridge as in Patent Number 4,975,744, issued 12-4-90 and assigned to CANON. Several companies have used these cartridges in laser printers, copy machines and facsimile machines, each with the varying printer engines and a different nameplate. Originally, these cartridges were designed to be "disposable". However, after the first all-in-one toner cartridge was introduced, it did not take long before laser cartridge remanufacturers such as myself began remanufacturing cartridges. These "disposable" cartridges were designed to function for only one cartridge cycle without remanufacturing. The remanufacturers had found certain components that needed replacement on a regular basis. In 1990, the first aftermarket

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